

3/2-Way, G 1/4 - G 1 1/2



### Advantages/Benefits

- ▶ Body material: brass
- ▶ Isolating diaphragm between solenoid and fluid
- ▶ Lockable manual override standard
- ▶ Long service life even in non-lube conditions

### Design/Function

Type 340 is a servo-assisted 3-way poppet solenoid valve, which is available in the circuit functions C (normally-closed) and D (normally-open).

The cylinder port is exhausted for circuit function C when de-energised and pressurised for circuit function D.

The solenoid epoxy encapsulation efficiently dissipates the heat generated by the coil.

### Applications

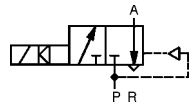
- Neutral gases and liquids
- Vacuum
- Pneumatic control
- To control larger cylinders and pneumatic actuators
- Elevating- and materials handling technology

**bürkert**  
*Easy* Fluid Control Systems

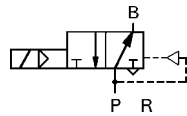
## Technical Data

## Circuit Function

C 3/2-way valve, when de-energized outlet port A exhausted, with 3-way pilot control



D 3/2-way valve, when de-energized outlet port B pressurized, with 3-way pilot control



## Body Material

Body and seat of brass

## Specifications

Orifice DN [mm]	Kv-Value Water [m <sup>3</sup> /h]	QNm-Value <sup>1)</sup> Air P-A <sup>3)</sup> [l/min]	Pressure Range <sup>2)</sup> [bar]	Weight [kg]
8	0,95	1030	0,5-16	1,0
12 <sup>4)</sup>	2,30	2500	0,5-16	1,2
12 <sup>5)</sup>	2,60	2800	0,5-16	1,2
20	6,60	7200	0,5-16	2,2
25	10,00	11000	0,5-10	2,7
40	24,00	26000	0,5-10	6,8

<sup>1)</sup> Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20 °C, <sup>2)</sup> A min. pressure differential of 0.5 bar is required to provide reliable switching of the valve. <sup>3)</sup> The configuration of port R is always one orifice larger than the other connections, which multiplies the flow rates from A to R by 1.5 to 2 times, <sup>4)</sup> G 3/8, <sup>5)</sup> G 1/2

All pressures quoted are gauge pressures with respect to the prevailing atmospheric pressure.

## Operating Data (Valve)

## Seal Materials/Fluids Handled/Temp.- Range

NBR Neutral fluids, e.g. compressed air, town gas, water, hydraulic oils, oils and fats without additives  
0 to +90 °C

For more detailed information please refer to resistance chart (Leaflet-No. 1896009).

Max. ambient temperature +55 °C

Max. viscosity 21 mm<sup>2</sup>/s

Response times opening 25-120 ms  
closing 25-120 ms

Measured at outlet A from switching on until pressure rise to 90 % /pressure drops to 10 % at a working pressure of 6 bar.

Port connection G 1/4, 3/8, 1/2, 3/4, 1, 1 1/2

## Operating Data (Actuator)

Operating voltages 24, 110, 230, 240 V/50 Hz  
12, 24 V/=

Voltage tolerance ±10 %

Power consumption AC 30 VA (inrush)  
15 VA/8 W (hold)  
DC 8 W

Duty cycle 100 % continuously rated

Cycling rate approx. 1000 c.p.m.

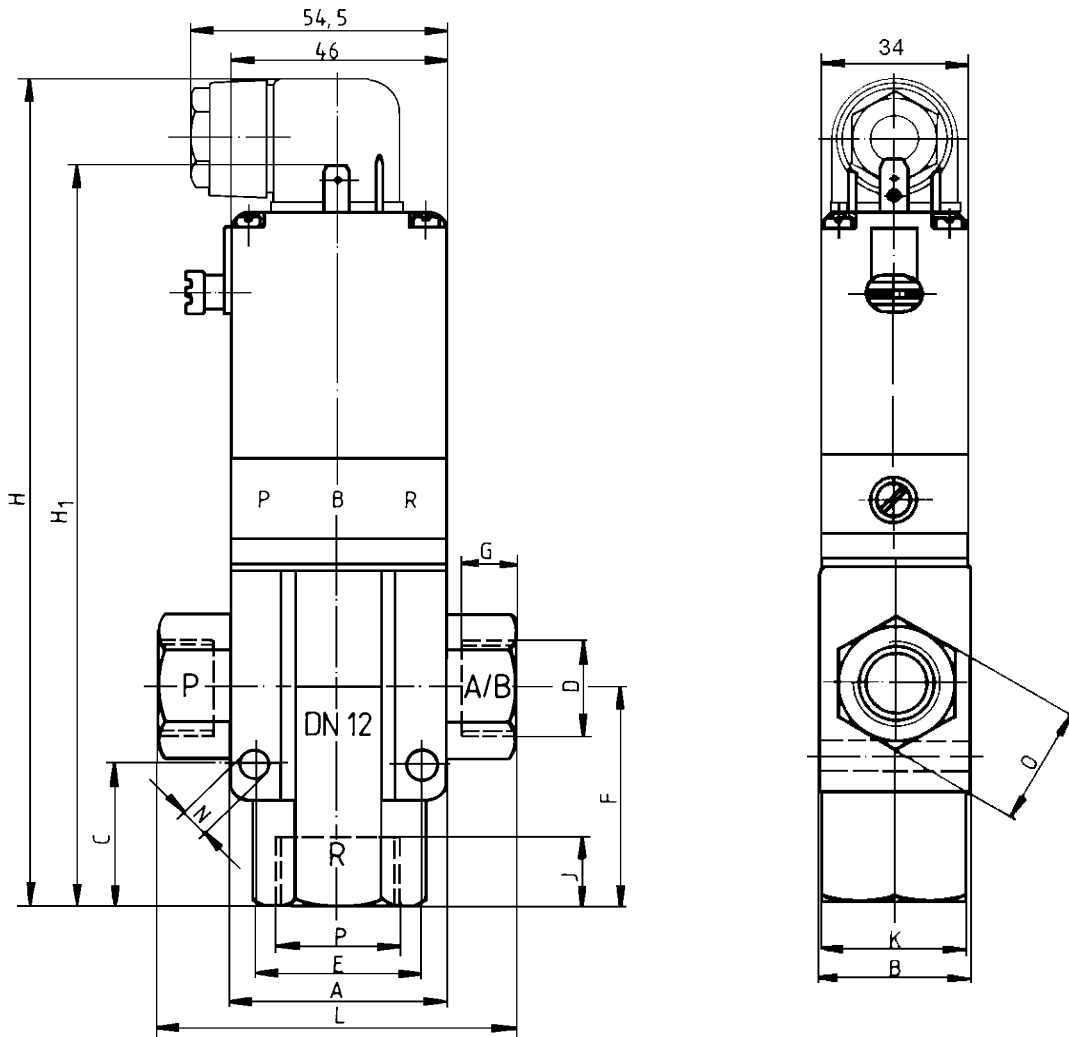
Classification with cable plug IP 65

## Installation / Accessories

Installation as required

Electrical connection cable plug for 7mm ø cable (supplied as standard)

Dimensions in mm



This dimensional drawing shows a valve in circuit function C with port designations P, R and A/B (see figure on the front page).

In circuit function D, the manual override is located above the port connection A/B.

DN	A	B	C	D	E	F	G	H	H1	J	K	L	N	O	P
8	46	33	23	G 1/4	30	34,5	12	154,5	135,5	12	SW 22	65	7	SW 22	G 3/8
12	46	33	31	G 3/8	34	47	12	179,5	160,5	16	SW 32	76	7	SW 27	G 3/4
12	46	33	31	G 1/2	34	47	14	179,5	160,5	16	SW 32	76	7	SW 27	G 3/4
20	62	52	42	G 3/4	48	63	16	215,5	195,5	18	SW 41	90	9	SW 36	G1
25	82	60	44	G 1	66	74,5	18	237,5	220,5	20	Ø 54	110	9	SW 41	G1 1/4
40	117	88	65	G1 1/2	93	104	22,5	274,0	274,0	26,5	Ø 78	153	13	SW 55	G 2

## Ordering Chart (Other Versions on Request)

Circuit Function	Orifice DN [mm]	Flow Rate		Port Connection [ISO 228]	Pressure Range <sup>2)</sup> [bar]	Body Material	Seal- Material	Weight [kg]	Voltage/ Frequency [V/Hz]	Order-No.					
		Water Kv-Value [m <sup>3</sup> /h]	Air <sup>1)</sup> Q <sub>Nn</sub> <sup>3)</sup> [l/min]												
C	8,0	0,95	1 030	G 1/4	0,5-16	Brass	NBR	1,0	012/=	042 506 T					
									024/50	041 318 C					
									024/=	041 317 T					
									230/50	041 329 F					
	12,0	2,30	2 500	G 1/2	0,5-16	Brass	NBR	1,2	024/50	041 334 U					
									024/=	041 333 T					
									110/50	041 340 N					
									230/50	041 346 G					
									240/50	042 277 C					
									G 3/8	0,5-16	Brass	NBR	1,2	024/50	041 351 D
									230/50	041 353 F					
									20,0	6,60	7 200	G 3/4	0,5-16	Brass	NBR
230/50	041 361 F														
25,0	10,0	11 000	G 1	0,5-10	Brass	NBR	2,7	024/=	041 537 Q						
								110/50	042 864 Z						
								230/50	041 364 A						
40,0	24,0	26 000	G 1 1/2	0,5-10	Brass	NBR	6,8	024/=	042 319 E						
								230/50	041 366 C						
D	8,0	0,95	1 030	G 1/4	0,5-16	Brass	NBR	1,0	024/50	041 368 N					
									024/=	041 367 D					
									230/50	041 371 H					
	12,0	2,30	2 500	G 1/2	0,5-16	Brass	NBR	1,2	024/50	041 375 D					
									024/=	041 374 C					
									230/50	041 380 F					
								230/50	041 386 Z						

<sup>1)</sup> Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20 °C, <sup>2)</sup> A min. pressure differential of 0.5 bar is required to provide reliable switching of the valve, <sup>3)</sup> Flow direction from P to A. The configuration of port R is always one orifice larger than the other connections, which multiplies the flow rate from A to R by 1.5 to 2 times.